

ATOMIZING NOZZLE WITH ANODIZED ALUMINUM BODY

ABSTRACT OF THE DISCLOSURE

An anodized aluminum atomizing nozzle (20) for use in a misting system and a process (200) for manufacturing the atomizing nozzle (20) are provided. The atomizing nozzle (20) is made up of a nozzle body (22), an orifice insert (24), and an impeller (26). The nozzle body (22) has an inlet end (30), has an outlet end (32), has an insert recess (54) proximate the outlet end (32), and encompasses a first chamber (60). The orifice insert (24) is affixed to the nozzle body (22) within the insert recess (54) and encompasses a second chamber (94). The impeller (26) is configured to reside within the first and second chambers (60, 94) between the orifice insert (24) and the nozzle inlet end (30).